This Listing of Claims will replace all prior versions, and listings, of claims in this application:

## **Listing of Claims:**

- 1. (Withdrawn) A method for the production of an improved raffinate-resistant amino acid producing bacterial strain B comprising:
  - (a) subjecting a parental bacterial strain A to mutagenesis;
- (b) contacting said mutagenized parental strain A with a medium containing at least about 1% raffinate based on ammonia content;
  - (c) selecting a raffinate-resistant bacterial strain B; and
- (d) determining amino acid production of said raffinate-resistant bacterial strain B.
- 2. (Withdrawn) The method of Claim 1, wherein said parental bacterial strain is subjected to random chemical mutagenesis.
- 3. (Withdrawn) The method of claim 1, wherein said parental bacterial strain is selected from a group consisting of:
  - (a) Corynebacterium sp.;
  - (b) Brevibacterium sp.;
  - (c) Escherichia coli; and
  - (d) Bacillus sp.
- 4. (Withdrawn) The method of claim 1, wherein said bacterial strain B produces an amino acid selected from the group consisting of:
  - (a) glycine;

|   | (b)    | alanine;  |  |
|---|--------|---|--|
|   | (c)    | methionine;   |  |
|   | (d)    | phenylalanine;  |  |
|   | (e)    | trytophan;  |  |
|   | (f)    | proline;  |  |
|   | (g)    | serine;   |  |
|   | (h)    | threonine;  |  |
|   | (i)    | cysteine;   |  |
|   | (j)    | tyrosine;   |  |
|   | (k)    | asparagine;   |  |
|   | (l)    | gluamine;   |  |
|   | (m)    | aspartic acid;  |  |
|   | (n)    | glutamic acid;  |  |
|   | (o)    | lysine;   |  |
|   | (p)    | arginine;   |  |
|   | (q)    | histidine;  |  |
|   | (r)    | isoleucine;   |  |
|   | (s)    | leucine; and  |  |
|   | (t)    | valine.   |  |
| 5.                                      | (Witho | lrawn) The method of claim 1, wherein said parental bacterial strain is |  |
| Corynebacterium sp. producing L-Lysine. |        |   |  |
|   |        |   |  |

6. (Currently amended) An isolated raffinate-resistant bacterial strain B that produces an amino acid, wherein said strain was produced by a process comprising:

- (a) subjecting a parental bacterial strain A to mutagenesis;
- (b) culturing the mutagenized parental strain in a <u>heat-sterilized</u> bacterial culture medium containing at least about 1% <u>heat sterilized</u> raffinate based on ammonia sulfate content, wherein said raffinate is the broth effluent waste stream product generated during the <u>ion-exchange chromatographic purification of an amino acid</u>; and
- (c) selecting said raffinate-resistant bacterial strain B from the bacterial culture medium containing said mutagenized parental strain of part b wherein said strain B is able to grow in a heat-sterilized bacterial culture medium containing raffinate raffinate medium which has been heat-sterilized.
- 7. (Previously presented) The isolated bacterial strain of Claim 6, wherein the parental bacterial strain A is selected from the group consisting of:
  - (a) Corynebacterium sp.;
  - (b) Brevibacterium sp.;
  - (c) Escherichia coli; and
  - (d) Bacillus sp.
- 8. (Previously presented) The isolated bacterial strain of Claim 7, wherein said bacterial strain B produces an amino acid selected from the group consisting of:
  - (a) glycine;
  - (b) alanine;
  - (c) methionine;
  - (d) phenylalanine;
  - (e) tryptophan;
  - (f) proline;

|   | (g)  | serine;  |  |  |
|---|--|--|--|--|
|   | (h)  | threonine;   |  |  |
|   | (i)  | cysteine;  |  |  |
|   | (j)  | tyrosine;  |  |  |
|   | (k)  | asparagine;  |  |  |
|   | (1)  | glutamine;   |  |  |
|   | (m)  | aspartic acid;   |  |  |
|   | (n)  | glutamic acid;   |  |  |
|   | (o)  | lysine;  |  |  |
|   | (p)  | arginine;  |  |  |
|   | (q)  | histidine;   |  |  |
|   | (r)  | isoleucine;  |  |  |
|   | (s)  | leucine; and   |  |  |
|   | (t)  | valine.  |  |  |
| 9.  | (Previously presented) An isolated Corynebacterium strain, wherein said strain |  |  |  |
| produces at least about 10 g/l of L-lysine in 24 hours when grown in a bacterial culture medium |  |  |  |  |
| containing at least about 1% raffinate.   |  |  |  |  |
| 10.   | (Withd   | Irawn) A Brevibacterium strain producing at least about 10 g/l L-lysine in |  |  |
| 24 hours when grown in a medium containing at least about 1% raffinate.                         |  |  |  |  |

wherein said strain is selected from the group consisting of:

NRRL B-30059;

11.

(a)

(Currently amended) An isolated L-lysine producing Corynebacterium strain,

- (c) NRRL B-30061;
- (d) NRRL B-30062;
- (e) NRRL B-30063; and
- (f) a mutant of (a), (b), (c), (d) or (e), wherein said mutant has increased Llysine amino acid production when compared to the <u>strain mutated to create said mutant</u> L-lysine
  producing *Corynebacterium* strain before being mutagenized.
- 12. (Previously presented) The strain of claim 11, wherein said strain is NRRL B-30059.
- 13. (Previously presented) The strain of claim 11, wherein said strain is NRRL B-30060.
- 14. (Previously presented) The strain of claim 11, wherein said strain is NRRL B-30061.
- 15. (Previously presented) The strain of claim 11, wherein said strain is NRRL B-30062.
- 16. (Previously presented) The strain of claim 11, wherein said strain is NRRL B-30063.
  - 17. (Withdrawn) A process for the production of an amino acid comprising:
- (a) culturing a bacterium B in a medium containing raffinate, whereby said strain is obtained by the following method:
  - (i) selecting a parental strain A that produces an amino acid;
  - (ii) subjecting said parental strain to mutagenesis;
- (iii) selecting from said mutagenized parental strain, an improved raffinate-resistant bacterial strain B; and

- (b) recovering the amino acid from the culture medium.
- 18. (Withdrawn) The process of claim 17, wherein the media concentration of raffinate is at least about 1% based on ammonia sulfate content.
- 19. (Withdrawn) The process of claim 17, wherein the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 20. (Withdrawn) The process of claim 17, wherein the medium concentration of raffinate is at least about 1% based on ammonia sulfate content and the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 21. (Withdrawn) the process of claim 17, wherein the raffinate concentration is about 5% based on ammonia sulfate content and the amount of L-lysine produced is at least about 10 g/l L-lysine in 24 hours.
- 22. (Withdrawn) The process of claim 17, wherein bacterium B is selected from the group consisting of:
  - (a) Corynebacterium sp.;
  - (b) Brevibacterium sp.;
  - (c) Escherichia coli; and
  - (d) Bacillus sp.
- 23. (Withdrawn) The process of claim 22, wherein the bacterium B is Corynebacterium sp. selected from the group consisting of:
  - (a) NRRL B-30059;
  - (b) NRRL B-30060;
  - (c) NRRL B-30061;
  - (d) NRRL B-30062;

- (e) NRRL B-30063; and
- (f) mutants of (a), (b), (c), (d) or (e).